#### Given Grid

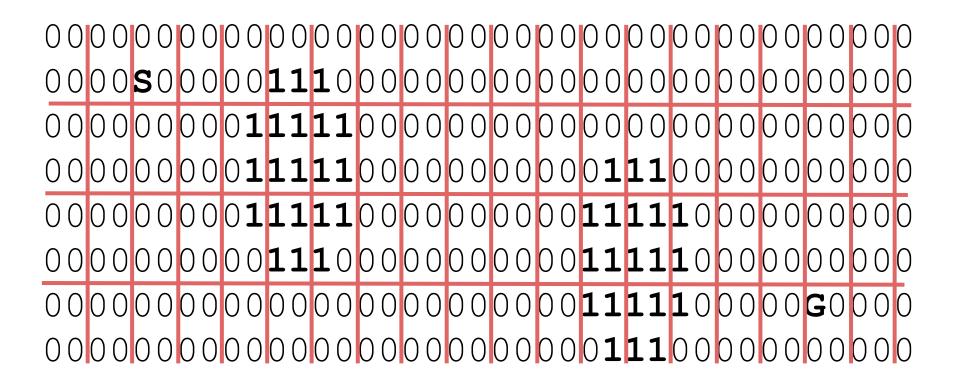
#### Setting Start and Goal

0000000000000000000000000**1**000000**G**0000 

#### Inflate Obstacles

0000000000000000000000000**1111**00000**G**0000 

### Lowering Resolution



### Lowering Resolution

**S**00**11**0000000000000 **111**00000**11**00000 **111**00**G**0

# Sample N Points

**S**00**110**00000000000000 000000000**111**00**G**0

# Sample N Points

- Each point inserted to a KD-Node
- Calculate Adj-Matrix using KNN and KD-Tree

### Shortest-Path Using Dijkstra

# Path On The Original Grid

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